

WOLEX / NETWORK FIELD REFERENCE

Cisco switches | Troubleshooting

Catalyst / IOS XE 17.x | Revision 1.0 | Reviewed 2026-10-10

IOS XE EXEC commands. Feature support and interface names vary. IOS XR, NX-OS and Meraki are outside this sheet.

Read-only inspection unless labeled otherwise. Replace every example address, interface and <PLACEHOLDER>. Confirm syntax with device help for your release.

Port down or intermittent

Read-only inspection

```
show interfaces status
show interfaces GigabitEthernet1/0/1
```

Inspect: Compare link state, speed/duplex and rising error counters. A single cumulative CRC count does not prove an active fault.

Next: Take two timestamped samples; inspect both ends and the physical path before changing speed or bouncing the port.

Interface is an example; replace it. Cable diagnostics can affect service and are not part of this read-only block.

Link up, wrong VLAN or no gateway

Read-only inspection

```
show interfaces GigabitEthernet1/0/1 switchport
show interfaces trunk
```

Inspect: Compare access/native VLAN and allowed/active VLANs along the uplink path.

Next: Check the same VLAN at the far end, then its gateway and the endpoint IP settings.

Do not assume trunk means every VLAN is forwarded.

Redundant link not forwarding

Read-only inspection

```
show spanning-tree vlan 30
show etherchannel summary
```

Inspect: Identify the root, forwarding/blocking roles and bundled versus individual members.

Next: Check VLAN and LACP settings on the peer; determine whether STP blocking is expected.

VLAN 30 is illustrative. Do not disable STP or force channel mode to hide a mismatch.

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Cisco switches | Deployment

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Cutover acceptance

Read-only inspection

```
show interfaces status
show interfaces trunk
show etherchannel summary
```

Inspect: Compare uplink state, VLAN carriage and bundle members with the saved baseline.

Next: Test management from a separate path and one real application per affected VLAN before saving the accepted running configuration.

Pre-stage interface mapping, console access and a tested backup/recovery method. A syntax-valid configuration is not proof of working service.

Change acceptance checklist

Before: approved scope, baseline, compatible software/optics, protected backup, console access and recovery owner.

After: compare links, VLANs, peers and routes; test management from a separate path, real application traffic, intended denies and redundancy. Record evidence and time.

Close: save or confirm the accepted configuration, update documentation and retain the reviewed recovery path.

Vendor references

[Cisco Catalyst port status](#)[Cisco IOS XE switching command reference](#)[Cisco configuration replacement](#)

Not executed on customer equipment. Documentation-reviewed examples; platform features and syntax vary. No login, config upload or device connection.

Live reference: wolex.net/tools/network-cheat-sheets/

Deployment and migration help from Wolex | [Network security review](#)